## AMENDMENTS TO THE CLAIMS

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Please amend the claims as indicated in the following listing of all claims:

- 1. (Currently Amended) A method comprising:
- evaluating one or more characteristics associated with one or more signals sent by a remote communication device to a local communication device, the signals being sent according to a communication protocol allowing variability in the one or more characteristics, the one or more characteristics varying for at least some implementations of the communication protocol; and
- comparing the evaluated one or more characteristics to characteristics of signals sent by known devices; and
- enabling a communication feature according to the comparing of the evaluated one or more characteristics to thereby better communicate with the remote communication device.
- wherein the remote communication device is a digital modem and the communication feature is a request for spectral shaping by an analog modem.
- 2. (Original) The method as recited in claim 1 further comprising determining an identity of the remote communication device based on the comparing of the evaluated one or more characteristics.
- 3. (Original) The method as recited in claim 2 wherein the identity of the remote communication device is determined according to at least one of brand, type or model.
- 4. (Original) The method as recited in claim 1 wherein the evaluating occurs during a training phase establishing properties of a communication medium coupling the remote communication device to the local communication device.
  - 5. 7. (Cancelled)

- 8. (Original) The method as recited in claim 1 wherein the evaluating is performed in a first communication device operating as a modern in accordance with ITU-T Recommendation V.90.
- 9. (Original) The method as recited in claim 1 further comprising enabling one or more performance enhancing or deficiency compensation features according to the comparing of the evaluated one or more characteristics.

## 10. - 15. (Cancelled)

- 16. (Currently Amended) A computer program product encoded in at least one computer readable medium, comprising:
  - a first instruction sequence executable to evaluate one or more characteristics associated with signals sent by a remote communication device, wherein the one or more signals are sent according to a communication protocol allowing variability in the one or more characteristics; and
  - a second instruction sequence executable to compare the evaluated one or more characteristics to stored characteristics of known communication devices and to provide a comparison result.
  - wherein duration of one or more training signals are the one or more characteristics and wherein the second instruction sequence compares a measured duration to stored duration values to identify the remote communication device.
- 17. (Original) The computer program product as recited in claim 16 wherein the comparison result is used to determine an identity of the remote communication device.
  - 18. (Original) The computer program product as recited in claim 16, wherein the at least one computer readable medium is selected from the set of a disk, tape or other magnetic, optical, or electronic storage medium and a network, wireline, wireless or other communications medium.
  - 19. (Cancelled)

- 20. (Currently Amended) The computer program product as recited in claim 19 A computer program product encoded in at least one computer readable medium, comprising:
  - a first instruction sequence executable to evaluate one or more characteristics associated
    with signals sent by a remote communication device, wherein the one or more
    signals are sent according to a communication protocol allowing variability in the
    one or more characteristics; and
  - a second instruction sequence executable to compare the evaluated one or more

    characteristics to stored characteristics of known communication devices and to

    provide a comparison result; and
  - a third instruction sequence executable to enable a communication feature according to
    the comparison result to thereby better communicate with the remote
    communication device,
  - wherein the remote communication device is a digital modem and the feature is a request for spectral shaping by an analog modem.
- 21. (Original) The computer program product as recited in claim 16 wherein the computer program product is executable on a device having communication capability and which is coupled to the remote communication device.
- 22. (Previously Presented) The computer program product as recited in claim 17 further comprising an instruction sequence executable to enable at least one of a performance enhancing or deficiency compensation feature according to the identification of the remote communication device.
  - 23. 33. (Cancelled)
  - 34. (Previously Presented) A method comprising:
  - evaluating one or more characteristics associated with one or more signals sent by a remote communication device to a local communication device, the signals being sent according to a communication protocol allowing variability in the one or more characteristics, as amongst implementations of the communication protocol; and

- known devices, wherein the local communication device performs the evaluating by measuring a duration of one or more training signals, duration of the one or more training signals corresponding to one or more characteristics of the one or more signals sent by the remote communication device.
- 35. (Previously Presented) The method as recited in claim 34 wherein an the identity of the remote communication device is determined according to at least one of brand, type or model.
- 36. (Previously Presented) The method as recited in claim 34 further comprising enabling a communication feature according to the comparing of the evaluated one or more characteristics to thereby better communicate with the remote communication device.
- 37. (Previously Presented) The method as recited in claim 36 wherein the remote communication device includes a digital modern and the communication feature is a request for spectral shaping by an analog modern.
- 38. (Previously Presented) The method as recited in claim 34 wherein the remote communication device includes one of a digital modem and an analog modem.
- 39 (Previously Presented) The method as recited in claim 34 wherein the evaluating is performed in a first communication device operating as a modem in accordance with ITU-T Recommendation V.90.
- 40. (Previously Presented) The method as recited in claim 34 further comprising enabling one or more performance enhancing or deficiency compensation features according to the comparing of the evaluated one or more characteristics.
- 41 (Previously Presented) The method as recited in claim 34 wherein the training signals are modern training signals  $TRN_{1d}$  and  $TRN_{2d}$  and the duration of the modern training

signals are measured and wherein during the comparing, the measured duration is compared to stored duration values to identify the remote communication device.

- 42. (Previously Presented) The method as recited in claim 34 wherein the duration is measured in terms of a number of symbols transmitted.
- 43. (Previously Presented) A computer program product encoded in at least one computer readable medium, comprising:
  - a first instruction sequence executable to evaluate one or more characteristics associated with signals sent by a remote communication device; and
  - a second instruction sequence executable to compare the evaluated one or more characteristics to stored characteristics of known communication devices and to provide a comparison result, wherein duration of one or more training signals correspond to the one or more characteristics and wherein the second instruction sequence compares a measured duration to stored duration values to identify a remote communication device.
  - 44. (Previously Presented) The computer program product as recited in claim 43, wherein the at least one computer readable medium is selected from the set of a disk, tape or other magnetic, optical, or electronic storage medium and a network, wireline, wireless or other communications medium.
- 45. (Previously Presented) The computer program product as recited in claim 43 further comprising an instruction sequence executable to enable a communication feature according to the comparison result to thereby better communicate with the remote communication device.
- 46. (Previously Presented) The computer program product as recited in claim 45 wherein the remote communication device is a digital modern and the feature is a request for spectral shaping by an analog modern.

- 47. (Previously Presented) The computer program product as recited in claim 43 wherein the computer program product is executable on a device having communication capability and which is coupled to the remote communication device.
- 48. (Previously Presented) The computer program product as recited in claim 43 further comprising an instruction sequence executable to enable at least one of a performance enhancing or deficiency compensation feature according to the identification of the remote communication device.

## 49. (Cancelled)

- 50. (Previously Presented) An apparatus comprising:
- a first device operable to measure one or more parameters associated with one or more signals sent during a communication session with a remote communications device, wherein the one or more signals include training signals and wherein the one or more parameters include duration of the training signals; and
- storage elements containing known one or more parameters associated with one or more known communication devices, wherein the first device is operable to compare the measured one or more parameters of the one or more signals to the stored one or more parameters of known devices.
- 51. (Previously Presented) The apparatus as recited in claim 50 further comprising enabling one or more performance enhancing or deficiency compensation features according to the comparison of the measured one or more parameters.
- 52. (Previously Presented) The apparatus as recited in claim 50 wherein comparing the measured one or more parameters is used to determine an identity of the remote communications device.
- 53. (Previously Presented) The apparatus as recited in claim 50 wherein the one or more parameters include the number of symbols sent.

- 54. (Previously Presented) The apparatus as recited in claim 50 wherein the first device is a modem.
- 55. (Previously Presented) The apparatus as recited in claim 50 wherein the training signals are modern training signals TRN<sub>1d</sub> and TRN<sub>2d</sub>, the duration of the modern training signals being measured and compared to known durations to determine an identity of the remote communications device.